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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/622,771	07/21/2003	Praveen K. Malhotra	36737-189786	4229
7590 02/03/2006			EXAMINER	
John P. Shannon			CHAPMAN, JEANETTE E	
Merek, Blackmon & Voorhees, LLC 673 South Washington Street Alexandria, VA 22314			ART UNIT	PAPER NUMBER
			3635	
			DATE MAILED: 02/03/2000	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/622,771	MALHOTRA ET AL.				
		Examiner	Art Unit				
		Chapman E Jeanette	3635				
Period fo	The MAILING DATE of this communication or Reply	appears on the cover she	et with the correspondence address				
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD FOR RE MAILING DATE OF THIS COMMUNICATIO insions of time may be available under the provisions of 37 CFF SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, and period for reply is specified above, the maximum statutory per uncertainty of the period for reply will, by start to reply within the set or extended period for reply will, by start reply received by the Office later than three months after the month and period for reply will. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, r reply within the statutory minimum iod will apply and will expire SIX (6 atute, cause the application to become the status of the status.	nay a reply be timely filed of thirty (30) days will be considered timely.) MONTHS from the mailing date of this communic me ABANDONED (35 U.S.C. § 133).	ation.			
Status							
1)⊠	Responsive to communication(s) filed on O	4 August 2005.					
2a)□							
3)							
Disposit	ion of Claims						
5)□ 6)⊠ 7)⊠	Claim(s) <u>1-38</u> is/are pending in the applicate 4a) Of the above claim(s) is/are with Claim(s) is/are allowed. Claim(s) <u>1,2,11,13,20-22,26,28 and 35-38 is</u> Claim(s) <u>3-10,12,14-19,23-25,27 and 29-34</u> Claim(s) are subject to restriction and	drawn from consideration s/are rejected. I is/are objected to.					
Applicat	ion Papers						
9)[The specification is objected to by the Exam	niner.					
10)	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection to						
11)	Replacement drawing sheet(s) including the cor The oath or declaration is objected to by the	· ·	• , , ,				
Priority	under 35 U.S.C. § 119						
a)	Acknowledgment is made of a claim for fore All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International But See the attached detailed Office action for a	ents have been received ents have been received priority documents have leau (PCT Rule 17.2(a)).	in Application No been received in this National Stage	}			
Attachmer	nt(s)						
	ce of References Cited (PTO-892)		view Summary (PTO-413)				
3) 🛛 Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB er No(s)/Mail Date <u>11/16/2005</u> .	/08) 5) 🔲 Notic	r No(s)/Mail Date se of Informal Patent Application (PTO-152) r:				

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-2, 11,13,20-22, 26,28 and 35-38 rejected under 35 U.S.C. 103(a) as being unpatentable over Leek (6006487) in view of Fanucci et al (65301820) and Petroff (2754679).

Leek shows applying a load to a brace or building structural member shown in figure 1. The load is applied in cycles simulating the forces due to an earthquake. See column 1 and 7-8. Leek discloses more than 9 and preferably as many cycles as needed to determine failure. This may be less than, equal to or greater than 15 cycles. Leek discloses applying the load in cycles to a first sample of the structure, applying a load monotonically to a second sample that is substantially identical to the first. This implies uniform—amplitude cycles. The speed can be based on any measurement based on speed, velocity or acceleration. See column 7, lines 1-33. See Petroff also. For Leek, a maximum deformation is applied to the structure and the force required to achieve the maximum permissible deformation is measured.

Fannuci discloses a structural brace in which it would be practical to apply the testing method of Leek. The brace component 20 or 70 of Fanucci has an orientation with respect to the vertical when the component is in use in the brace. The test method

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of Fannucci comprises applying a load to the component in the orientation and at an angle with respect to the brace. See column 8, lines 35-65.

Petroff discloses a vibration analyzing equipment. His device is portable, rugged, and may be applied to vibrations at widely different frequencies. This may includes vibrations/cycles for a plurality of buildings during an earthquake of the same earthquake. One of his testing devices involves measuring the cycles based on the record of acceleration with respect to time in at least one structure. Forces may be applied by vibration loading from a machine; however, Petroff discloses that his apparatus includes a wide range of uses and is portable. Petroff implies the load is applied in uniform amplitude cycles as it is measure or input is converted by a uniform amplitude circuit. Thus, the forces of Leek are applied to the brace of Fannuci in uniform-amplitude cycles simulating the forces of an earthquake and the Uniform amplitude cycles are applied on the record acceleration with respect to time as taught by Petroff for at least one building during an earthquake.

It would have been obvious to one of ordinary skill in the art to apply the method of Leek and Petroff to the seismic brace of Fannuci as suggested by Fannuci in order that a test be performed which most accurately simulates an earthquake's properties.

Allowable Subject Matter

Claims 3-10, 12, 14-19, 23-25, 27, 29-34 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chapman E Jeanette whose telephone number is 571-272-6841. The examiner can normally be reached on Mon.-thursday, 8:30-6:00, every other fri. off.

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